

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): GRS-CQ6.0PdG/NhH3-E							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	134	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = - 7 °C	Pdh	5.03	kW	Tj = - 7 °C	COPd	2.28	-
Degradation co-efficient (**)	Cdh	0.99	-				
Tj = 2 °C	Pdh	3.58	kW	Tj = 2 °C	COPd	3.27	-
Degradation co-efficient (**)	Cdh	0.97	-				
Tj = 7 °C	Pdh	1.87	kW	Tj = 7 °C	COPd	4.47	-
Degradation co-efficient (**)	Cdh	0.94	-				
Tj = 12 °C	Pdh	1.83	kW	Tj = 12 °C	COPd	6.18	-
Degradation co-efficient (**)	Cdh	0.92	-				
Tj = bivalent temperature	Pdh	5.03	kW	Tj = bivalent temperature	COPd	2.28	-
Tj = operation limit temperature	Pdh	5.15	kW	Tj = operation limit temperature	COPd	2.07	-
For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = - 15 °C (if TOL < - 20 °C)	COPd	NA	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	-
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.85	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	NA	m ³ / h
Annual energy consumption	Q _{HE}	3415	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	116	%
Daily electricity consumption	Q _{elec}	4.222	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	885	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of the supplier: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	108	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	2.29	kW	Tj = − 7 °C	COPd	2.40	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 2 °C	Pdh	1.41	kW	Tj = 2 °C	COPd	3.12	–
Degradation co-efficient (**)	Cdh	0.95	–				
Tj = 7 °C	Pdh	1.18	kW	Tj = 7 °C	COPd	4.55	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12 °C	Pdh	1.87	kW	Tj = 12 °C	COPd	6.71	–
Degradation co-efficient (**)	Cdh	0.91	–				
Tj = bivalent temperature	Pdh	3.08	kW	Tj = bivalent temperature	COPd	1.82	–
Tj = operation limit temperature	Pdh	3.07	kW	Tj = operation limit temperature	COPd	1.47	–
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	3.08	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	1.82	–
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.93	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ / h
Annual energy consumption	Q _{HE}	3333	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	91	%
Daily electricity consumption	Q _{elec}	5.399	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Medium-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	161	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	Tj = − 7 °C	COPd	NA	−
Degradation co-efficient (**)	Cdh	NA	−				
Tj = 2 °C	Pdh	5.51	kW	Tj = 2 °C	COPd	2.56	−
Degradation co-efficient (**)	Cdh	0.99	−				
Tj = 7 °C	Pdh	3.88	kW	Tj = 7 °C	COPd	3.77	−
Degradation co-efficient (**)	Cdh	0.98	−				
Tj = 12 °C	Pdh	1.81	kW	Tj = 12 °C	COPd	4.90	−
Degradation co-efficient (**)	Cdh	0.93	−				
Tj = bivalent temperature	Pdh	5.51	kW	Tj = bivalent temperature	COPd	2.57	−
Tj = operation limit temperature	Pdh	5.51	kW	Tj = operation limit temperature	COPd	2.57	−
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	NA	−
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	−
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.49	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	−	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	−	NA	m ³ / h
Annual energy consumption	Q _{HE}	1793	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	122	%
Daily electricity consumption	Q _{elec}	3.991	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	GJ
Contact details: West Jinji Rd, Qianshan, Zhuhai, Guangdong, China, 519070				Name of the supplier: GREE ELECTRIC APPLIANCES,INC. OF ZHUHAI			
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

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Model(s): GRS-CQ6.0PdG/NhH3-E							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Average climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	196	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	5.01	kW	Tj = − 7 °C	COPd	3.12	–
Degradation co-efficient (**)	Cdh	0.98	–				
Tj = 2 °C	Pdh	3.14	kW	Tj = 2 °C	COPd	4.93	–
Degradation co-efficient (**)	Cdh	0.96	–				
Tj = 7 °C	Pdh	2.12	kW	Tj = 7 °C	COPd	6.39	–
Degradation co-efficient (**)	Cdh	0.93	–				
Tj = 12 °C	Pdh	2.04	kW	Tj = 12 °C	COPd	8.74	–
Degradation co-efficient (**)	Cdh	0.89	–				
Tj = bivalent temperature	Pdh	5.01	kW	Tj = bivalent temperature	COPd	3.12	–
Tj = operation limit temperature	Pdh	5.11	kW	Tj = operation limit temperature	COPd	3.03	–
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	NA	–
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.89	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ / h
Annual energy consumption	Q _{HE}	2346	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	116	%
Daily electricity consumption	Q _{elec}	4.222	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	885	kWh	Annual fuel consumption	AFC	NA	GJ
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Model(s): GRS-CQ6.0PdG/NhH3-E							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Colder climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	4	kW	Seasonal space heating energy efficiency	ηs	153	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	2.72	kW	Tj = − 7 °C	COPd	3.39	–
Degradation co-efficient (**)	Cdh	0.97	–				
Tj = 2 °C	Pdh	1.73	kW	Tj = 2 °C	COPd	4.76	–
Degradation co-efficient (**)	Cdh	0.93	–				
Tj = 7 °C	Pdh	1.42	kW	Tj = 7 °C	COPd	5.79	–
Degradation co-efficient (**)	Cdh	0.90	–				
Tj = 12 °C	Pdh	1.98	kW	Tj = 12 °C	COPd	9.02	–
Degradation co-efficient (**)	Cdh	0.89	–				
Tj = bivalent temperature	Pdh	3.45	kW	Tj = bivalent temperature	COPd	2.26	–
Tj = operation limit temperature	Pdh	3.11	kW	Tj = operation limit temperature	COPd	1.99	–
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	3.45	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	2.26	–
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	–
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.89	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	–	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	–	NA	m ³ / h
Annual energy consumption	Q _{HE}	2661	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	91	%
Daily electricity consumption	Q _{elec}	5.399	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	1125	kWh	Annual fuel consumption	AFC	NA	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Information requirements (heat pump space heaters and heat pump combination heaters)							
Model(s): GRS-CQ6.0PdG/NhH3-E							
Air-to-water heat pump	Y			Low-temperature heat pump	N		
Water-to-water heat pump	N			Equipped with a supplementary heater	Y		
Brine-to-water heat pump	N			Heat pump combination heater	Y		
Parameters declared for	Low-temperature application						
Parameters declared for	Warmer climate condition						
Item	symbol	value	unit	Item	symbol	value	unit
Rated heat output (*)	Prated	6	kW	Seasonal space heating energy efficiency	ηs	250	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = − 7 °C	Pdh	NA	kW	Tj = − 7 °C	COPd	NA	−
Degradation co-efficient (**)	Cdh	NA	−				
Tj = 2 °C	Pdh	5.92	kW	Tj = 2 °C	COPd	3.71	−
Degradation co-efficient (**)	Cdh	0.98	−				
Tj = 7 °C	Pdh	3.49	kW	Tj = 7 °C	COPd	5.55	−
Degradation co-efficient (**)	Cdh	0.96	−				
Tj = 12 °C	Pdh	1.96	kW	Tj = 12 °C	COPd	8.07	−
Degradation co-efficient (**)	Cdh	0.90	−				
Tj = bivalent temperature	Pdh	5.92	kW	Tj = bivalent temperature	COPd	3.72	−
Tj = operation limit temperature	Pdh	5.92	kW	Tj = operation limit temperature	COPd	3.72	−
For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	Pdh	NA	kW	For air-to-water heat pumps: Tj = − 15 °C (if TOL < − 20 °C)	COPd	NA	−
Bivalent temperature	Tbiv	2	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Ppsych	NA	kW	Cycling interval efficiency	COPcyc	NA	−
				Heating water operating limit temperature	WTOL	65	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{OFF}	0.025	kW	Rated heat output (*)	Psup	0.08	kW
Thermostat-off mode	P _{TO}	0.025	kW	Type of energy input	Electric		
Standby mode	P _{SB}	0.025	kW				
Crankcase heater mode	P _{CK}	0	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	−	3310	m ³ / h
Sound power level, outdoors	L _{WA}	56	dB	For water- or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	−	NA	m ³ / h
Annual energy consumption	Q _{HE}	1250	kWh				
For heat pump combination heater:							
Declared load profile	L			Water heating energy efficiency	η _{wh}	122	%
Daily electricity consumption	Q _{elec}	3.991	kWh	Daily fuel consumption	Q _{fuel}	NA	kWh
Annual electricity consumption	AEC	838	kWh	Annual fuel consumption	AFC	NA	GJ
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj). (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							



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